

New and known thienyl urea or isourea derivs. - used as animal growth promoters

Patent Assignee: BAYER AG (FARB)

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Abstract (Basic): DE 3529247 A

(A) Thienyl (iso)ureas of formula (Ia) are new $n = 3-6$; $A = N(R_4)CONR_5R_6$ or $N(R_4)C(OR_5)=NR_6$; $R^3 = (a) CN, COOR_7, CONR_8R_9$ or COR_{10} when $n = 3, 5$ or 6 , or (b) $COOMe, (2-4C \text{ alkenyloxy})\text{carbonyl}, CONR_8R_9$ or COR_{10} when $n = 4$; $R_4 = H$ or alkyl; R_5 and $R_6 = H$, opt. substd. alkyl, cycloalkyl, alkenyl, opt. substd. aryl or heteroaryl; $R_7 = H$, opt. substd. alkyl, cycloalkyl, alkenyl or opt. substd. aryl; $R_8 = H$, alkyl or cycloalkyl; $R_9 = H$, opt. substd. alkyl or opt. substd. aryl; $R_{10} =$ opt. substd. alkyl or opt. substd. aryl.

(B) Thienyl isocyanates of formula (II) are also new, except for 3-methoxycarbonyl -2-thienyl isocyanate; R_1 and $R_2 = H$, halogen, NO_2 , CN , alkoxy, alkylthio, haloalkoxy, haloalkylthio, alkoxyalkyl or opt. substd. alkyl, acyl, aroyl, or aryl, or R_1+R_2 forms an opt. substd. satd. or unsatd. carbocyclic ring opt. with a carbonyl function; $R^3 = COOR^7, CONR_8R_9$ or COR_{10} ; $R^7 = H$, opt. substd. methyl, cycloalkyl, 2-4C alkenyl or opt. substd. aryl.

USE - Use of thienyl (iso)ureas of formula (I) is 'animal productivity promoters' (specifically growth promoters) is claimed. $R_3 = CN, COOR_7, CONR_8R_9$ or COR_{10} . (79pp Dwg.No.0/0)

Abstract (Equivalent): EP 202538 B

Use of thienylureas or -isoureas of the formula (I) in which A represents the radicals (Ia) and (Ib) R_1 represents hydrogen, halogen, nitro, CN , alkoxy, alkylthio, halogenoalkoxy, halogenalkylthio, alkoxyalkyl or optionally substituted radicals from the group comprising alkyl, acyl, aroyl, and aryl, R_2 represents hydrogen, halogen, nitro, CN , alkoxy, alkylthio, halogenoalkoxy, halogenalkylthio, alkoxyalkyl or optionally substituted radicals from the group comprising acyl, aroyl, alkyl and aryl, or R_1 and R_2 , together with the adjacent C atoms, represent an optionally substituted saturated or unsaturated carbocyclic or heterocyclic ring, which can optionally carry a carbonyl function, R_3 represents the radicals $CN, COOR_7, COONR_8R_9$ or COR_{10} , R_4 represents hydrogen or alkyl, R_5 represents, optionally substituted alkyl, cycloalkyl, alkenyl, optionally substituted aryl or heteroaryl, R_6 represents hydrogen, optionally substituted alkyl, cycloalkyl, alkenyl, optionally substituted alkyl, cycloalkyl, alkenyl, or optionally substituted aryl, R_8 represents hydrogen, alkyl or cycloalkyl, R_9 represents hydrogen, optionally substituted alkyl or optionally substituted aryl and R_{10}

Herbicidal 4-ureido-thiophene-3 carboxylic acid ester(s) - prepd. e.g. by reaction of 4-amino-thiophene-3- carboxylic acid ester(s) with isocyanate(s)

Patent Assignee: BASF AG (BADI)

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Number of Countries: 004 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3305866	A	19840823	DE 3305866	A	19830219	198435 B
EP 116932	A	19840829	EP 84101466	A	19840213	198435

Priority Applications (No Type Date): DE 3305866 A 19830219

Cited Patents: DE 2040579; DE 2122636; EP 90309; US 2453564; US 3931204

Patent Details:

Patent No	Kind	Lan	Pg	Main-IPC	Filing Notes
DE 3305866	A		27		
EP 116932	A	G			

Designated States (Regional): DE FR GB IT

Abstract (Basic): DE 3305866 A

Cpds. of formula (I) are new. In (I) R1=H, 1-10C alkyl, 2-10C alkenyl, 2-10C alkynyl, 1-10C haloalkyl, 2-10C alkoxyalkyl, 2-10C alkylthioalkyl, 3-7C cycloalkyl, phenyl(opt. substd) by or benzyl (opt. substd.); R2=1-10C alkyl, 2-10C alkenyl, 2-10C alkylnyl, 8-10C phenylalkyl, 1-10C haloalkyl, 2-10C alkoxyalkyl, 2-10C alkylthioalkyl, 3-7C cycloalkyl, phenyl (opt. substd.) or benzyl (opt. substd.).

USE - As selective herbicides in a wide range of crop plants.

Application may be pre- or post-emergence and is generally at a rate of 0.1-5 kg/ha or more, pref. 0.5-3 kg/ha.

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Title Terms: HERBICIDE; UREIDO; THIOPHENE; CARBOXYLIC; ACID; ESTER; PREPARATION; REACT; AMINO; THIOPHENE; CARBOXYLIC; ACID; ESTER; ISOCYANATE

Derwent Class: C02

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File Segment: CPI

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